




RAKIB HASAN (He/Him)

 LinkedIn  GitHub  Portfolio

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OBJECTIVES: Dedicated to building a cleaner and more sustainable world, with research interests in GIS, machine learning, and deep learning. Seeking opportunities that lets me apply my knowledge and help improve the environment.

EDUCATION

Bachelor of Science in Geography and Environment
Jagannath University

September 2023 - Present
CGPA: 3.88*/4.00

Higher Secondary Education (Science)
Motijheel Government Boys' School and College

April 2019 – November 2021
GPA: 5.00/5.00

SKILLS

- **Programming Language:** Python (*Pandas, NumPy, Matplotlib, Seaborn*), SQL, CSS, JS (*D3.js, Plotly.js*)
- **Geospatial Tools:** ArcGIS Pro, QGIS, Google Earth Engine
- **Data Analytical Tools:** Power BI, SPSS, Excel, Looker Studio
- **Technical Skills:** Microsoft Office Suite and Google Workspace
- **Soft Skills:** Communication skills, Time management, Problem Solving, Teamwork, Presentation skills, Project management
- **Languages:** Fluent in English, Native in Bengali

INTERESTS

Learning Languages, TED Talks, Volunteering, Traveling.

Research Interest: Disaster Management and Risk Reduction, Environmental Monitoring and Assessment, Natural Hazard Risk Analysis, Machine Learning, Deep Learning.

PROJECTS

Academic Projects:

Physical and Socio-economic Status: A Case Study on Kuakata | [Link](#)

Conducted a comprehensive fieldwork study as part of my first-year B.Sc. program in the Department of Geography and Environment at Jagannath University. The project involved in-depth data collection and analysis of the physical and socio-economic conditions of Kuakata and nearby areas. This hands-on experience enhanced my skills in data gathering through surveys, interviews, and observations, and allowed me to apply geographic theories in a real-world context, significantly enriching my understanding of the intricate relationship between environmental and societal factors.

Non-Academic Projects:

Popular Content Category Analysis in Social Buzz | [Link](#)

- **Analyzed** 24,574 rows of content data from Social Buzz using SQL to identify the top 5 most popular content categories, enhancing strategic content planning for improved user engagement.

- **Developed** a dashboard in Power BI to visualize key insights, revealing that the "Animals" category had the highest popularity score of 74,965, followed by "Science" with 71,168, guiding content creation efforts.
- **Utilized** Microsoft Excel and Power BI for data cleaning, trend analysis, and visualization, and presented findings in PowerPoint to stakeholders, leading to data-driven decisions on content strategy.

Evaluating Solar Footprints in California: A Statistical Analysis of Spatial and Technoeconomic Factors | [Link](#)

- **Analyzed** 5,397 solar installation records using SPSS, applying **correlation**, **t-tests**, and **chi-square tests**.
- **Found** rural installations averaged 69.14 acres larger than urban ones ($p < 0.001$).
- **Identified** 85.5% higher efficiency for installations closer to substations.
- **Visualized** findings with **scatterplots**, **boxplots**, and **bar charts** for policy recommendations.

CERTIFICATIONS

Google - Data Analytics Professional Certificate | [CERTIFICATE](#)

University of Pennsylvania - Data Analysis Using Python | [CERTIFICATE](#)

University of Toronto - GIS, Mapping, and Spatial Analysis Specialization | [CERTIFICATE](#)

Vanderbilt University - Prompt Engineering | [CERTIFICATE](#)

Microsoft - Career Essentials in Data Analysis | [CERTIFICATE](#)

EXTRACURRICULAR ACTIVITIES

United Nations Volunteers | [LINK](#)

Volunteer

Youth Empowerment in Climate Action Platform | [LINK](#)

Mover

Bangladesh Mathematical Olympiad | [LINK](#)

Mover

Green Voice - Jagannath University Branch | [LINK](#)

Volunteer